LakePower 50 Pure Hydrogen Fuel Cell System







b Hot water production



🔀 Low maintenance costs

FENERGY

- Small footprint
- 🔀 Remote control



High performance Rated power 50kW





Customized design and development based on customer needs



Accurate and controllable

High power density and small size

Features

High reliability and durability

Adopting a vehicle grade fuel cell system with high reliability and a design life of up to 20000 hours

Simplified integration

Can be freely paired with different specifications of hydrogen storage, lithium batteries, and PCS to meet the needs of different scenarios

On/off grid compatible

Equipped with lithium batteries and energy storage converters, it can support both grid connected and off grid use

Easy of capacity expansion

Multiple modules can be connected in parallel to expand system capacity

Application schematics

Single module AC power supply



Multi module combined power supply



Project	Parameter	Illustrate
Net system power	50 kW	0.65V
Operating system voltage	450-700 VDC	
Operating system current	10-150 A	
Idle power	9 kW	
Operating temperature	-35℃ - +45℃	
Minimum start-up temperature	-35°C	
Short-term	-45℃ - +80℃	
Operating altitude	<1500 m	Usually at low altitudes, power decreases at high altitudes
Dimensions	3500X2000X2400mm	Customizable container
Weight	3000kg	
Fuel type	Gaseous hydrogen	
Fuel purity	> 99.99%, SAEJ2719	
Fuel supply pressure	1.3 – 1.6 MPa	
Fuel efficiency	45% @ 50kW	
Oxidant	Air	
Fuel mass flow	1.71 g/s	
Air mass flow	71.07 g/s	
Coolant	Ethylene glycol 0%-50% vol. DI water	
Heat dissipation power	50kW	
Radiator coolant outlet temp.	70°C	
Control interface	CANbus	
PCS inverter	Optional	
AC output voltage	380/400 VAC, 50Hz, 3W+N	